

LITHOLOGIC LOG

WELL No. EWB003

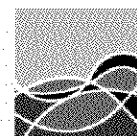
Logged By: Michael Lewis
 Checked By: Michael Rendina
 Driller: Gregg Drilling
 Drilling Method: Hand Auger/Hollow-stem Auger
 Sampling Method: 2" x 18" Split Spoon
 Sampling Interval: Continuous

Date Started: 5/28/10
 Date Completed: 5/29/10
 Northing: 1768710.709
 Easting: 6470060.246
 Elevation: 52.95
 Boring Depth: 97 feet

Client: The Boeing Company
 Site: Former C-6 Facility
 Location: Los Angeles, California
 Project No.: 1155.013

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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
0							2" Asphalt surface.	
							Very dark gray, SANDY SILTY GRAVEL, well graded base.	
2						CL	Dark brown (10YR 3/3), SILTY CLAY, moist, stiff, plastic.	
4							Note: Few pieces of asphalt, red brick and rock throughout upper 5 to 6 feet.	
6								
8						CL	Brown (10YR 4/3), SILTY CLAY, moist, firm, plastic, some very fine-grained sand.	
10								
12						ML	Brown (10YR 4/3), SILT, moist, dense, little very fine-grained sand, some clay in 2 to 3" zones.	
14								



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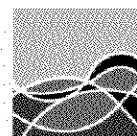
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVW (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
17	EWB003_SS20100528_16_01							
19				0		ML	Brown (10YR 4/3), SILT, moist, firm, little very fine-grained sand, some clay.	
21								
23						CL	Brown (10YR 4/3), CLAY, slightly moist, stiff, fissured and crumbly, caliche staining in nodules.	5" Sch 40 PVC Casing
25				0		SP	Yellowish brown (10YR 5/4), SAND, moist, fine- to very fine-grained, poorly graded, faint oxidation staining.	
27							Yellowish brown (10YR 5/4), SAND, moist, fine- to very fine-grained, poorly graded.	Neat Cement Grout
29				0			Yellowish brown (10YR 5/4), SAND, moist, fine- to very fine-grained, poorly graded, oxidation staining and cemented nodules.	



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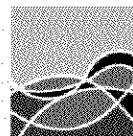
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVW (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
32						SP	Yellowish brown (10YR 5/6), SAND, moist, loose, fine-grained, trace very fine-grained, poorly graded.	
34				0				5" Sch 40 PVC Casing
36								
38							Pale brown (10YR 6/3), SAND, moist, loose, fine-grained, some very fine-grained, poorly graded.	
40				0			Pale brown (10YR 6/3), SAND, moist, loose, fine-grained, some very fine-grained, poorly graded, with light oxidation staining.	Neat Cement Grout
42							Yellowish brown (10YR 5/6), SAND, slightly moist, fine-grained, poorly graded.	
44							Pale brown (10YR 6/3), SAND, slightly moist, loose, fine- to very fine-grained, poorly graded, small angular and relatively thin shell fragments throughout.	
				0				



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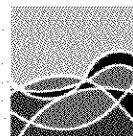
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
47						ML/CL	Note: Scour oxidation staining at contact. Olive brown (2.5Y 4/4), SILTY CLAY/CLAYEY SILT, veins and nodules, some 1 to 2" hard intervals.	
49								
51	EWB003_SS20100528_51_01			0		SM	Olive brown (2.5Y 4/4), SANDY SILT, moist, firm, very fine-grained sand, micaceous, oxidation staining in veins.	Neat Cement Grout
53						ML	Olive brown (2.5Y 4/3), SILT, moist, trace to some clay, micaceous, oxidation staining in veins.	
55				0				3/8" Bentonite Pellets
57							Olive brown (2.5Y 4/3), SILT, moist, trace to some clay, micaceous, oxidation staining in veins, little very fine-grained sand.	
59						SP	Grayish brown (10 YR 5/2), SAND, moist to very moist, fine-grained, poorly graded, micaceous, thinly bedded (mm scale), some faint oxidation staining.	
				0				5" Sch 40 PVC Casing



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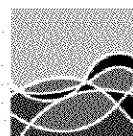
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVW (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
62						SP	Dark grayish brown (2.5Y 5/2), SAND, saturated, fine- to medium-grained, poorly graded.	<p>#60 Transitions Sand</p> <p>#2/12 Sand</p> <p>5" Stainless Steel 0.02 Slot Continuous Wire-wrap Screen</p>
64				0			<u>Note:</u> Oxidation staining.	
66							Gray (2.5YR 5/1), SAND, saturated, fine- to medium-grained, poorly graded.	
68						ML	Dark greenish gray, SILT, moist, stiff, trace clay, thin cross bedding apparent by oxidation staining.	
70				6.2		SP	Gray (2.5Y 5/1), SAND, saturated, fine- to medium-grained, poorly graded.	
72	EWB003_SS20100528_73_01	12	21				Gray (2.5Y 5/1), SAND, saturated, fine- to medium-grained, poorly graded, little silt in thin intervals.	
74		50					Dark greenish gray, SAND, saturated, fine- to medium-grained, poorly graded, micaceous.	
				0.8				



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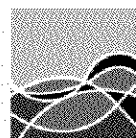
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77						SP	Dark greenish gray, SAND, saturated, fine- to medium-grained, poorly graded, micaceous.	
79			7 18 32	2.4				
81								
83							Yellowish brown (10YR 5/4), SAND, saturated, fine- to medium-grained, poorly graded, some small angular shell fragments.	
	EWB003_SS20100528_84_01						Dark greenish gray, SAND, saturated, fine- to medium-grained, poorly graded.	
85				1.2			Yellowish brown (10YR 5/4), SAND, saturated, poorly graded, few shell fragments.	
						SM	Silty fine-grained sand.	
87						SP	Sequence of dark greenish gray, SAND, interbedded with silty fine-grained sand.	
						SM	Silty fine-grained sand.	
						SP	Yellowish brown (10YR 5/4), SAND, saturated, poorly graded.	
89						SM	Yellowish brown, SILTY SAND, saturated, fine- to very fine-grained.	
				3.3				



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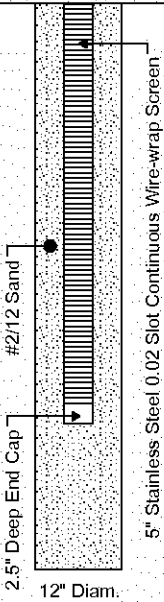
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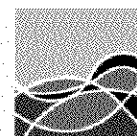
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
92						SP/SM	Yellowish brown, SILTY SAND, saturated, fine- to very fine-grained, mottled oxidation staining at 91 feet.	 <p>5" Stainless Steel 0.02 Slot Continuous Wire-wrap Screen</p> <p>2.5" Deep End Cap</p> <p>12" Diam.</p>
94				1.2		SP	Olive brown (2.5Y 4/3), SAND/SILTY SAND, saturated, fine to predominantly very fine-grained, poorly graded, silt present in intervals.	
96							Olive brown (2.5Y 4/3), SAND, saturated, fine-grained with very fine-grained, poorly graded.	
98							Note: Total sampled depth 94 feet. Over drilled to 97 feet. Well set at 95 feet bgs.	
100								
102								
104								

Notes: Total depth at 97 feet. Groundwater encountered at approximately 61 feet bgs. Boring completed as an extraction well.



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